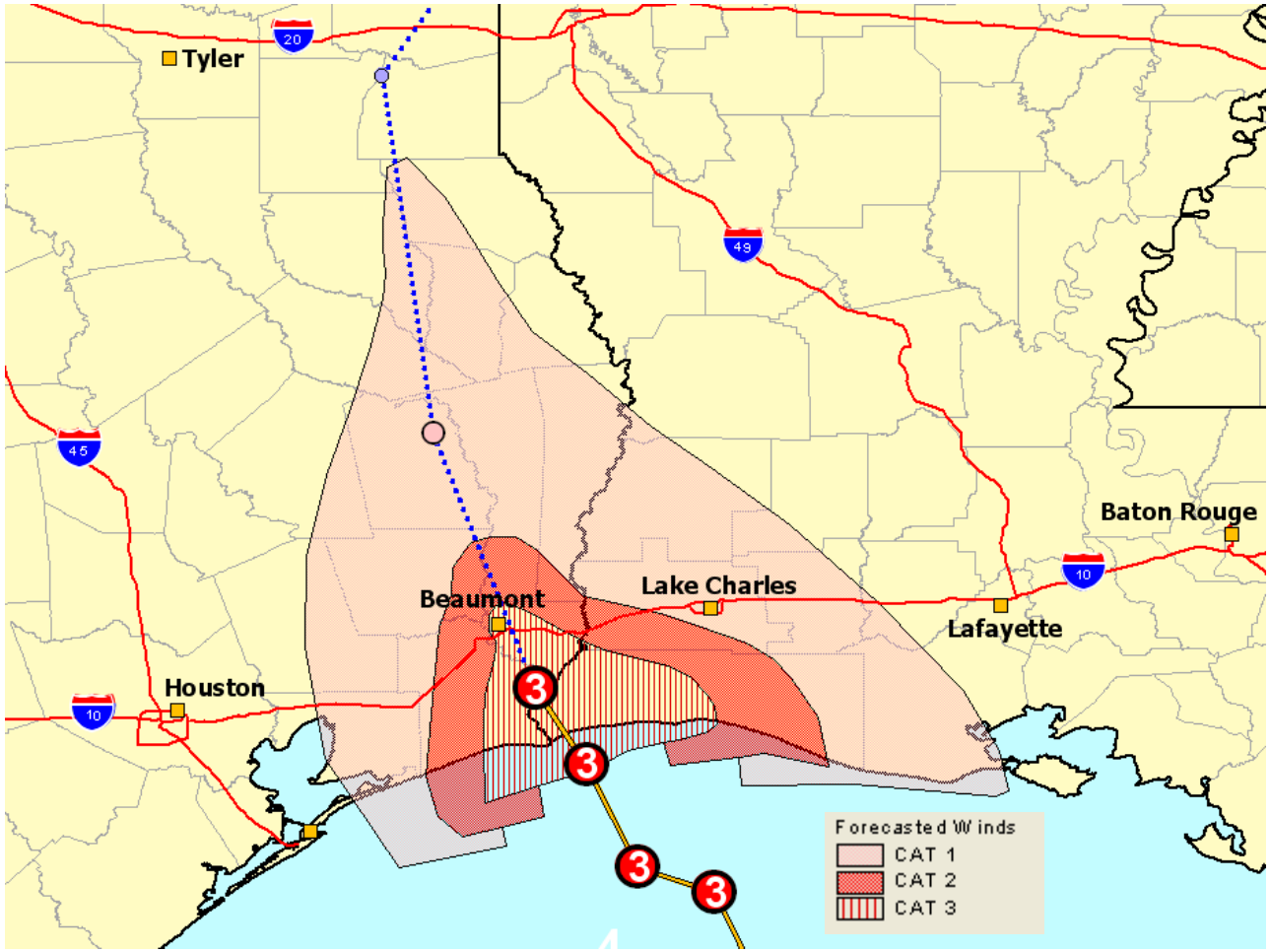
Hurricane Rita Wind Distribution

Landfall Has Occurred

For Official Use Only!



Most Probable Landfall Wind Distribution

This model is based on a Category 3 storm making landfall in near proximity to Port Arthur, TX.

Information provided on this page displays a Category 3 storm making landfall near Port Arthur, TX. These projections are based on information from the NHC ***(0500 EDT 09/24/2005)*** forecast.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Rita Wind Fields

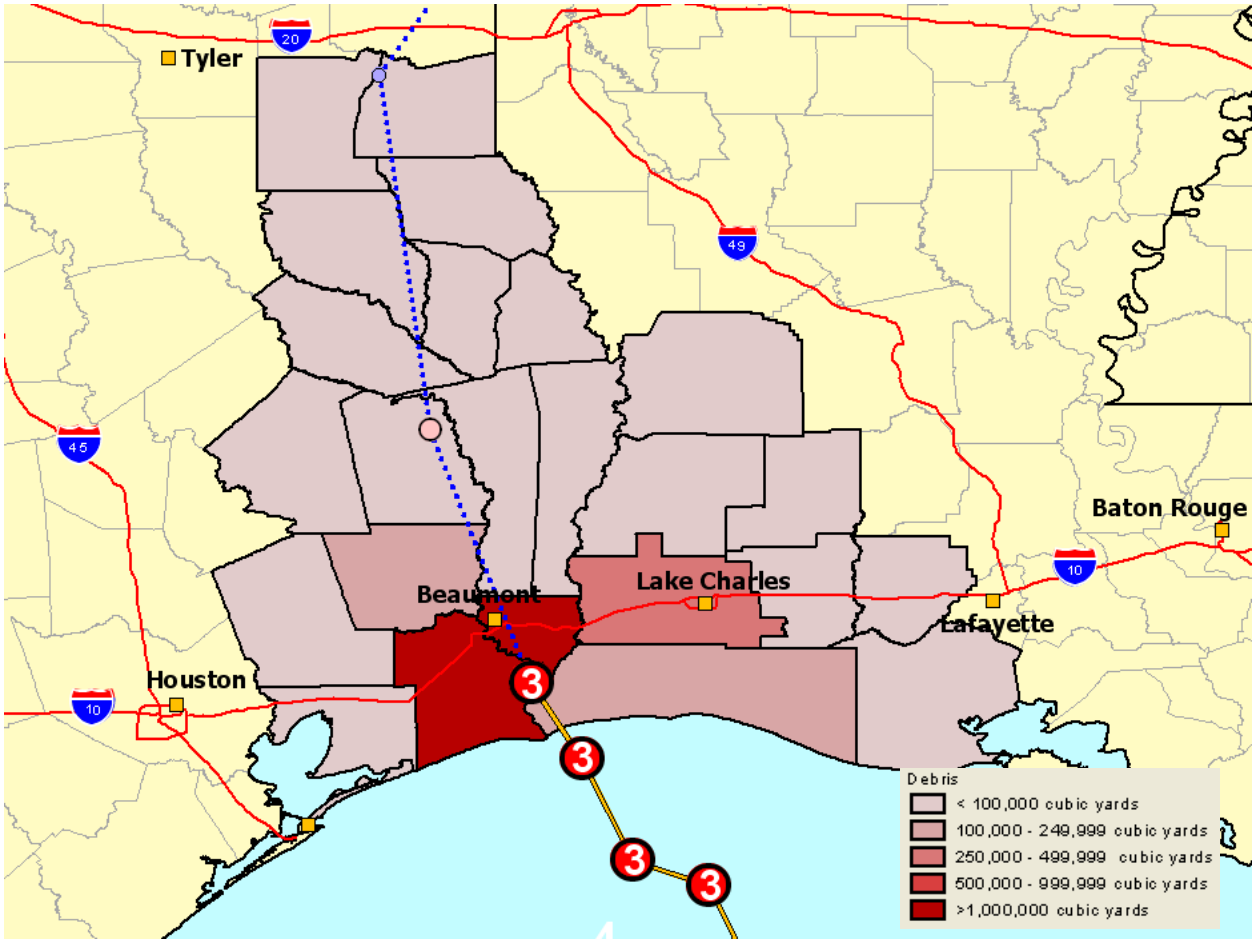
Generated By:
Paul Deatrick, LRL 0700 EDT 09/24/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Rita Debris Model

Landfall Has Occurred

For Official Use Only!



Most Probable Landfall Debris Model Results

Louisiana – 653,000 yd^3
Texas – 5,317,000 yd^3

Model results per parish/county on following page

This model is based on a Category 3 storm making landfall in near proximity to Port Arthur, TX.

Information provided on this page displays a Category 3 storm making landfall near Port Arthur, TX. These projections are based on information from the NHC ***(0500 EDT 09/24/2005)*** forecast. The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Rita Debris Model

Generated By:
Paul Deatrick, LRL 0700 EDT 09/24/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Rita Debris Model

Landfall Has Occurred

For Official Use Only!

State	County/Parish	Yards per County/Parish
Louisiana	Acadia	7,000
	Allen	5,000
	Beauregard	19,000
	Calcasieu	438,000
	Cameron	120,000
	Jeff'n Davis	49,000
	Vermilion	14,000
	Vernon	1,000
Louisiana		653,000
Texas	Angelina	12,000
	Cameron	1,000
	Chambers	22,000
	Galveston	5,000
	Hardin	185,000
	Jasper	93,000
	Jefferson	3,556,000
	Liberty	28,000
	Nacogdoches	10,000
	Newton	34,000
	Orange	1,298,000
	Panola	1,000
	Polk	9,000
	Rusk	1,000
	Sabine	6,000
	San Augustine	14,000
	Shelby	9,000
	Tyler	33,000
Texas		5,317,000
TOTAL		5,970,000

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Rita Debris Model

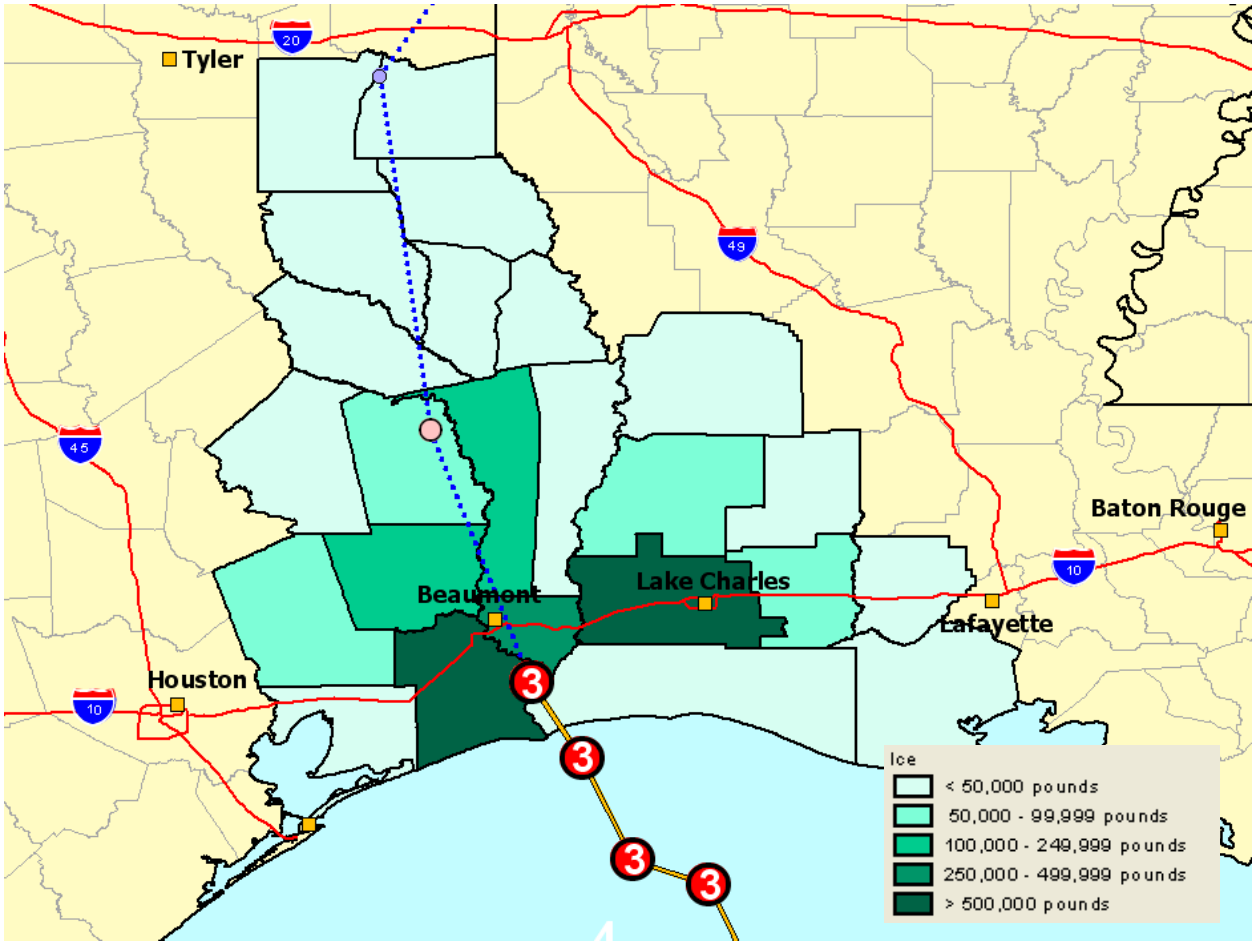
Generated By:
Paul Deatrick, LRL 0700 EDT 09/24/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Rita Ice Model

Landfall Has Occurred

For Official Use Only!



Most Probable Landfall Ice Model Results

Louisiana –
7 Truckloads Day One
13 Truckloads Day Two
25 Truckloads Day Three

Texas –
13 Truckloads Day One
26 Truckloads Day Two
52 Truckloads Day Three

This model is based on a Category 3 storm making landfall in near proximity to Port Arthur, TX.

Information provided on this page displays a Category 3 storm making landfall near Port Arthur, TX. These projections are based on information from the NHC ***(0500 EDT 09/24/2005)*** forecast. The amount of ice forecasted is based on Mission Guide Book requirements (8 pounds per day per person) and Ice SME input and represents a first day daily need.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Rita Ice Model

Generated By:
Paul Deatrick, LRL 0700 EDT 09/24/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Rita Ice Model

Landfall Has Occurred

For Official Use Only!

State	County/Parish	Pounds Per County/Parish - Day 3	Truckloads Per County/Parish - Day 3
Louisiana	Acadia	12,000	1
	Allen	12,000	1
	Beauregard	61,000	2
	Calcasieu	587,000	15
	Cameron	32,000	1
	Jeff'n Davis	94,000	3
	Vermilion	25,000	1
	Vernon	3,000	1
Louisiana		826,000	25
Texas	Angelina	22,000	1
	Chambers	45,000	2
	Galveston	8,000	1
	Hardin	154,000	4
	Jasper	114,000	3
	Jefferson	806,000	21
	Liberty	65,000	2
	Nacogdoches	19,000	1
	Newton	47,000	2
	Orange	272,000	7
	Panola	1,000	1
	Polk	18,000	1
	Rusk	1,000	1
	Sabine	11,000	1
	San Augustine	27,000	1
	Shelby	18,000	1
	Tyler	67,000	2
Texas		1,695,000	52
TOTAL		2,521,000	77

The amount of ice forecasted is based on Mission Guide Book requirements (8 pounds per person) and Ice SME input and represents a first day daily need. The assumption in this scenario is that 40% of the resident population affected by Rita will have power outage in this area will cause a need for ice.

Details about this model may be obtained at

https://englink.usace.army.mil

or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Rita Ice Model

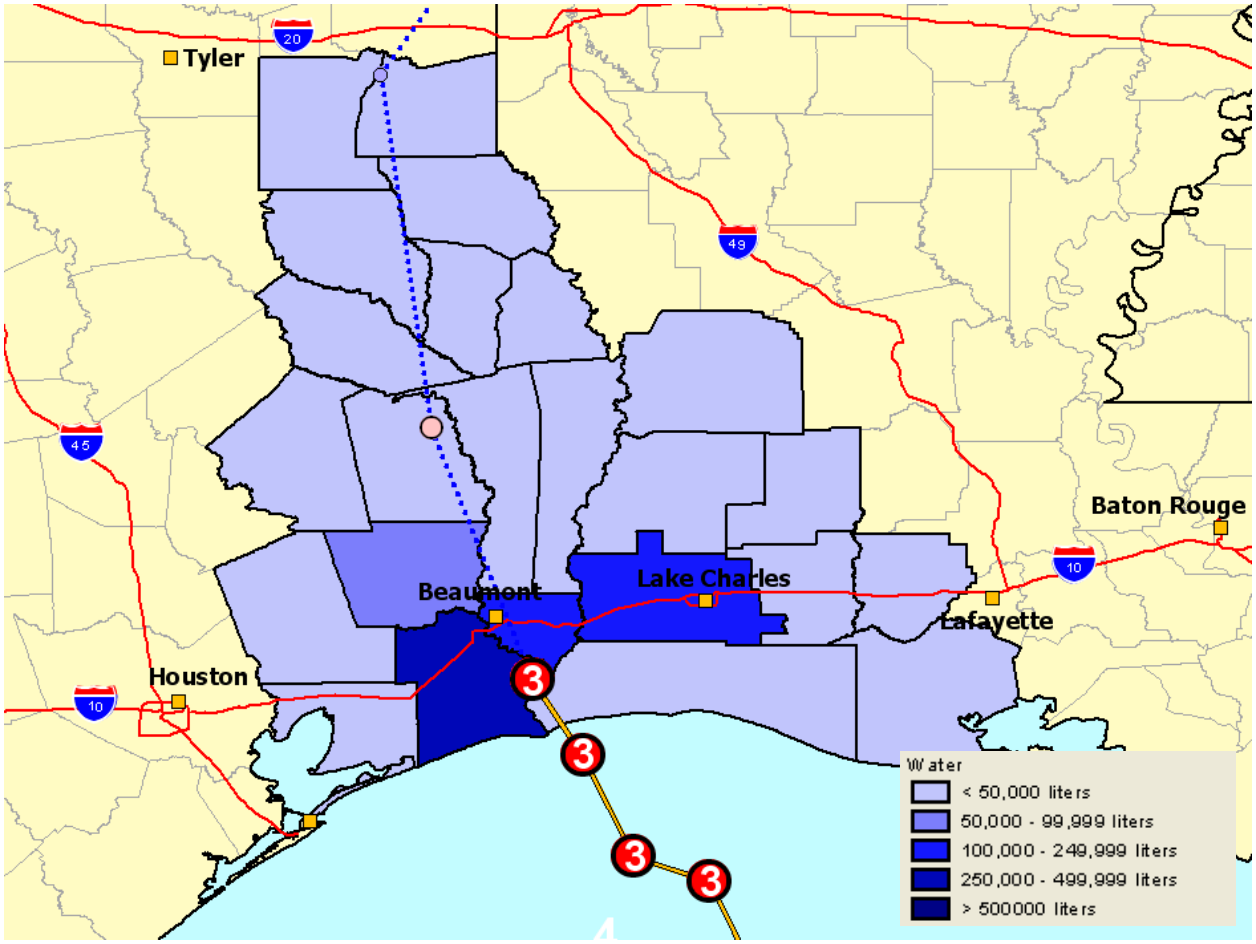
Generated By:
Paul Deatrick, LRL 0700 EDT 09/24/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Rita Water Model

Landfall Has Occurred

For Official Use Only!



Most Probable Landfall Water Model Results

Louisiana –
7 Truckloads Day One
13 Truckloads Day Two
25 Truckloads Day Three

Texas –
13 Truckloads Day One
26 Truckloads Day Two
52 Truckloads Day Three

This model is based on a Category 3 storm making landfall in near proximity to Port Arthur, TX.

Information provided on this page displays a Category 3 storm making landfall near Port Arthur, TX. These projections are based on information from the NHC ***(0500 EDT 09/24/2005)*** forecast. The amount of water forecasted is based on Mission Guide Book requirements (3 liters per person per day) and Water SME input and represents a first day daily need.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Rita Water Model

Generated By:
Paul Deatrick, LRL 0700 EDT 09/24/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Rita Water Model

Landfall Has Occurred

For Official Use Only!

State	County/Parish	Liters Per County/Parish - Day 3	Truckloads Per County/Parish - Day 3
Louisiana	Acadia	5,000	1
	Allen	4,000	1
	Beauregard	23,000	2
	Calcasieu	220,000	15
	Cameron	12,000	1
	Jeff'n Davis	35,000	3
	Vermilion	9,000	1
	Vernon	1,000	1
Louisiana		309,000	25
Texas	Angelina	8,000	1
	Chambers	17,000	2
	Galveston	3,000	1
	Hardin	58,000	4
	Jasper	43,000	3
	Jefferson	302,000	21
	Liberty	24,000	2
	Nacogdoches	7,000	1
	Newton	17,000	2
	Orange	102,000	7
	Panola	1,000	1
	Polk	7,000	1
	Rusk	1,000	1
	Sabine	4,000	1
	San Augustine	10,000	1
	Shelby	7,000	1
	Tyler	25,000	2
Texas		636,000	52
TOTAL		945,000	77

The amount of water forecasted is based on Mission Guide Book requirements (3 liters per person) and Water SME input and represents a first day daily need. The assumption in this scenario is that 40% of the resident population affected by Rita will have power outage in this area will cause a need for water.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Rita Water Model

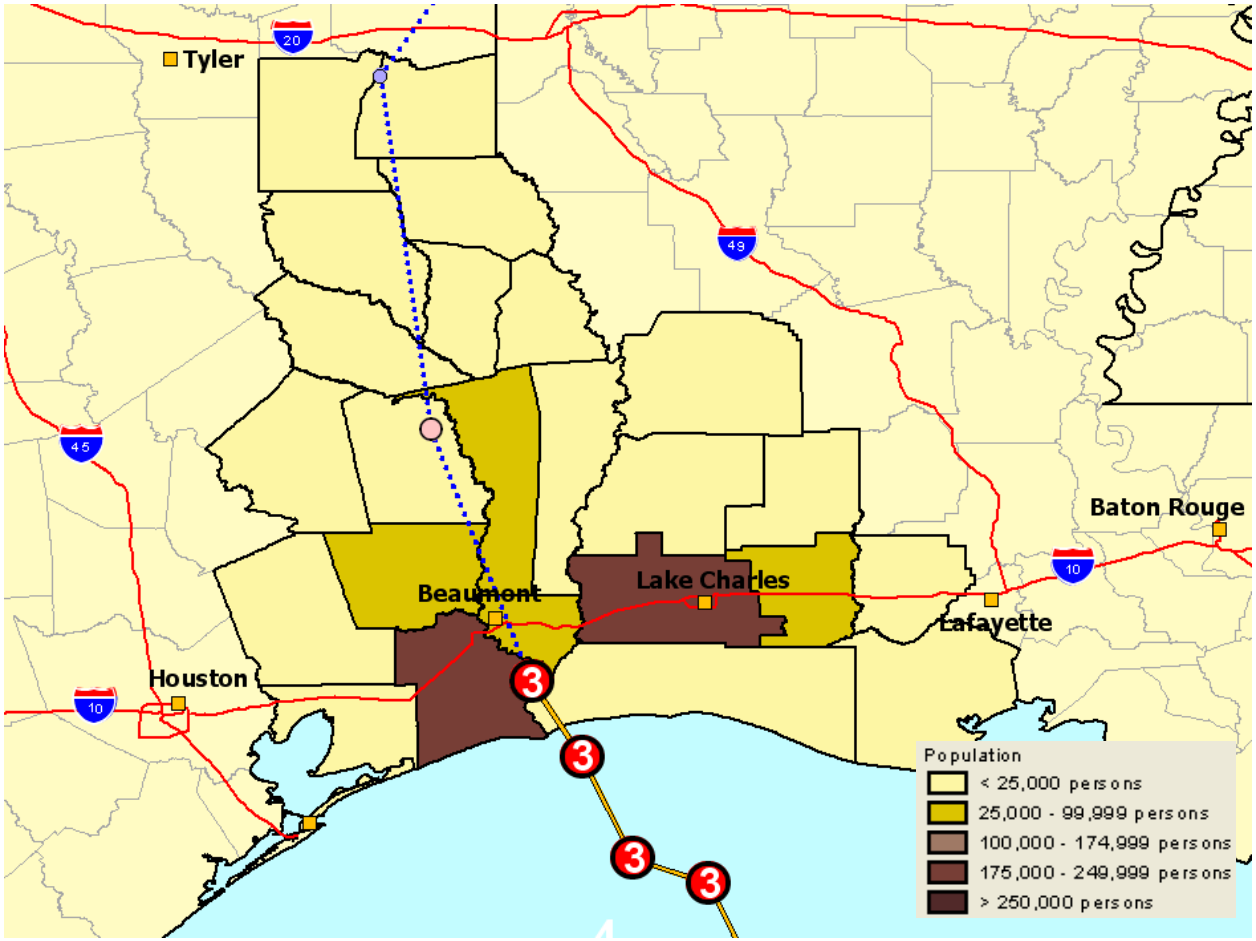
Generated By:
Paul Deatrick, LRL 0700 EDT 09/24/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Rita Population Model

Landfall Has Occurred

For Official Use Only!



Most Probable Landfall Population Model Results

Louisiana – 252,000 persons
Texas – 524,000 persons

Model results per county on following page

This model is based on a Category 3 storm making landfall in near proximity to Port Arthur, TX.

Information provided on this page displays a Category 3 storm making landfall near Port Arthur, TX. These projections are based on information from the NHC ***(0500 EDT 09/24/2005)*** forecast. The number of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values).

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers **Hurricane Rita Population Model**

Generated By: Paul Deatrick, LRL 0700 EDT 09/24/2005

Sources: HURREVAC LRL-DEBRIS

Hurricane Rita Population Model

Landfall Has Occurred

For Official Use Only!

State	County/Parish	Population Per County/Parish
Louisiana	Acadia	4,000
	Allen	4,000
	Beauregard	13,000
	Calcasieu	183,000
	Cameron	10,000
	Jeff'n Davis	29,000
	Vermilion	8,000
	Vernon	1,000
Louisiana		252,000
Texas	Angelina	7,000
	Cameron	1,000
	Chambers	14,000
	Galveston	2,000
	Hardin	48,000
	Jasper	36,000
	Jefferson	246,000
	Liberty	18,000
	Nacogdoches	6,000
	Newton	15,000
	Orange	85,000
	Panola	1,000
	Polk	6,000
	Rusk	1,000
	Sabine	4,000
	San Augustine	8,000
	Shelby	5,000
	Tyler	21,000
Texas		524,000
TOTAL		776,000

The number of persons estimated to be within hurricane force winds comes from Census 2000 values.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers **Hurricane Rita Population Model**

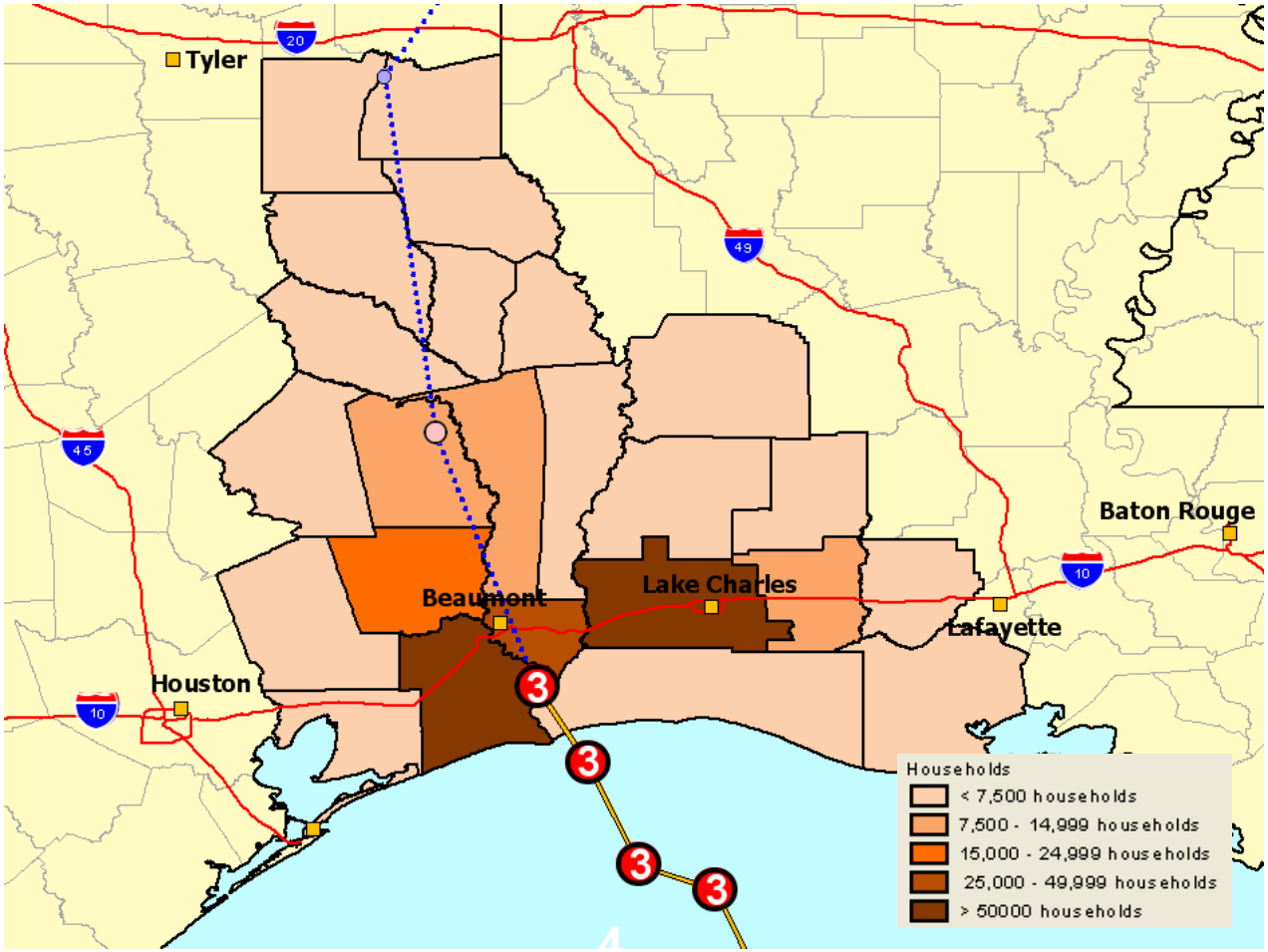
Generated By:
Paul Deatrick, LRL 0700 EDT 09/24/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Rita Households Model

Landfall Has Occurred

For Official Use Only!



Most Probable Landfall Households Model Results

Louisiana – 94,000 households
Texas – 198,000 households

Model results per county on following page

This model is based on a Category 3 storm making landfall in near proximity to Port Arthur, TX.

Information provided on this page displays a Category 3 storm making landfall near Port Arthur, TX. These projections are based on information from the NHC ***(0500 EDT 09/24/2005)*** forecast. The number of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values).

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Rita Households Model

Generated By:
Paul Deatrick, LRL 0700 EDT 09/24/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Rita Households Model

Landfall Has Occurred

For Official Use Only!

State	County/Parish	Households Per County/Parish
Louisiana	Acadia	1,000
	Allen	1,000
	Beauregard	4,000
	Calcasieu	69,000
	Cameron	4,000
	Jeff'n Davis	11,000
	Vermilion	3,000
	Vernon	1,000
Louisiana		94,000
Texas	Angelina	3,000
	Cameron	1,000
	Chambers	5,000
	Galveston	1,000
	Hardin	18,000
	Jasper	13,000
	Jefferson	93,000
	Liberty	7,000
	Nacogdoches	2,000
	Newton	5,000
	Orange	32,000
	Panola	1,000
	Polk	2,000
	Rusk	1,000
	Sabine	1,000
	San Augustine	3,000
	Shelby	2,000
	Tyler	8,000
Texas		198,000
TOTAL		292,000

The number of households estimated to be within hurricane force winds comes from Census 2000 values.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

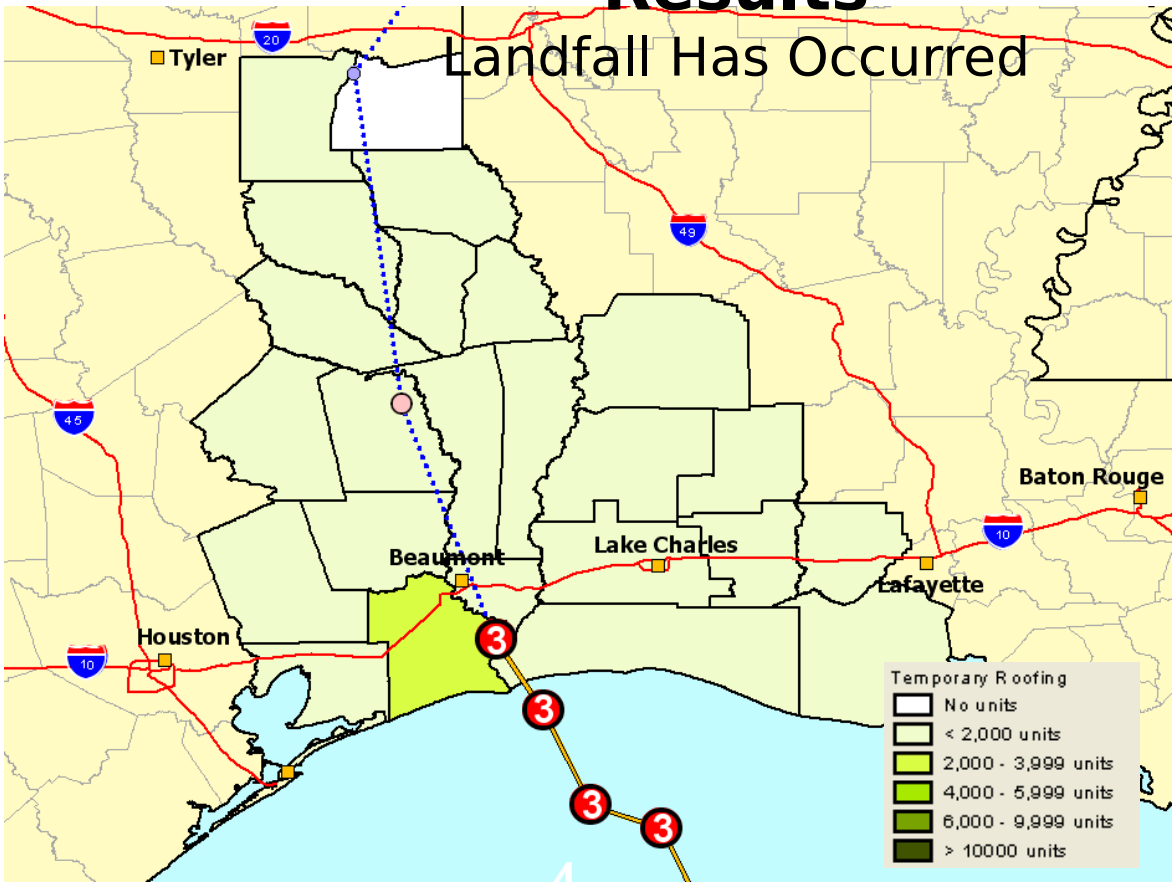
Hurricane Rita Households Model

Generated By:
Paul Deatrick, LRL 0700 EDT 09/24/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Rita Temporary Roofing Model Results

For Official Use Only!



Most Probable Landfall Temporary Roofing Model Results

Louisiana – 1,600
Texas – 6,900

Model results per county on following page

This model is based on a Category 3 storm making landfall in near proximity to Port Arthur, TX.

Information provided on this page displays a Category 3 storm making landfall near Port Arthur, TX. These projections are based on information from the NHC ***(0500 EDT 09/24/2005)*** forecast. The amount of temporary roofing that may be required is based on 1% of housing units damaged in CAT 1 wind area, 3% of housing units damaged in CAT 2 wind areas, and 5% of housing units damaged in CAT 3 wind areas. This only indicates possible need – not necessarily a mission to repair roofs.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Rita Roofing Model

Generated By:
Paul Deatrick, LRL 0700 EDT 09/24/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Rita Temporary Roofing Model Results

For Official Use Only!

State	County/Parish	House Units Per County/Parish
Louisiana	Acadia	100
	Allen	100
	Beauregard	100
	Calcasieu	900
	Cameron	100
	Jeff'n Davis	100
	Vermilion	100
	Vernon	100
Louisiana		1,600
Texas	Angelina	100
	Chambers	100
	Galveston	100
	Hardin	400
	Jasper	200
	Jefferson	3,600
	Liberty	100
	Nacogdoches	100
	Newton	100
	Orange	1,400
	Panola	100
	Polk	100
	Rusk	100
	Sabine	100
	San Augustine	100
	Shelby	100
	Tyler	100
Texas		6,900
TOTAL		8,500

THIS IS AN EXPERIMENTAL MODEL !! THE VALUES ARE PRELIMINARY AND SHOULD BE CONSIDERED A GUIDE BUT NOT AN ABSOLUTE VALUE !!

The amount of temporary roofing that may be required is based on 1% of housing units damaged in CAT 1 wind areas, 3% of housing units damaged in CAT 2 wind areas, and 5% of housing units damaged in CAT 3 wind areas. This only indicates possible need – not necessarily a mission to repair roofs.

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US Army Corps of Engineers

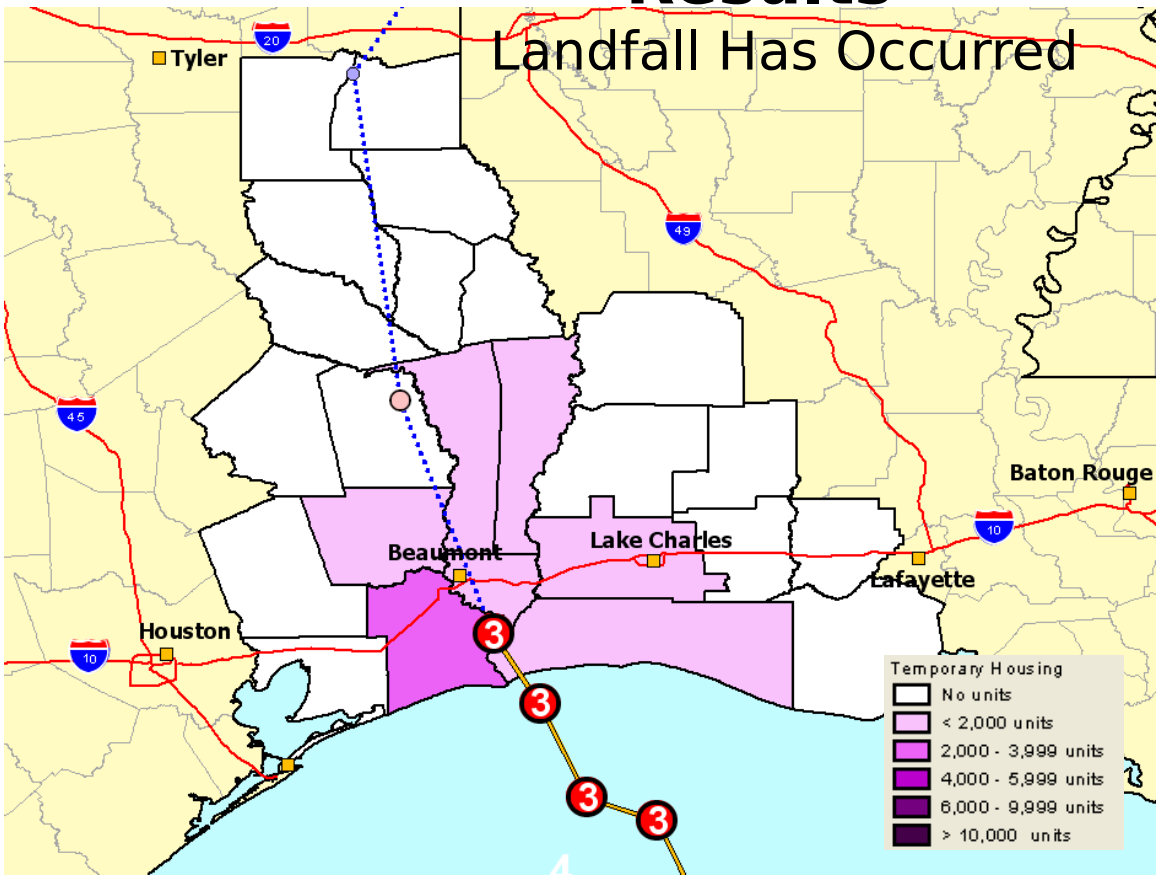
Hurricane Rita Roofing Model

Generated By:
Paul Deatrick, LRL 0700 EDT 09/24/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Rita Temporary Housing Model Results

For Official Use Only!



Most Probable Landfall Temporary Housing Model Results

Louisiana – 900
Texas – 5,400

Model results per county on following page

This model is based on a Category 3 storm making landfall in near proximity to Port Arthur, TX.

Information provided on this page displays a Category 3 storm making landfall near Port Arthur, TX. These projections are based on information from the NHC (***0500 EDT 09/24/2005***) forecast. The amount of temporary housing that may be required is based on no housing need in CAT 1 wind area, 2% of housing units requiring temporary replacement in CAT 2 wind areas, and 4% of housing units requiring temporary replacement in CAT 3 wind areas.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Rita Housing Model

Generated By:
Paul Deatrick, LRL 0700 EDT 09/24/2005

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Rita Temporary Housing Model Results

For Official Use Only!

State	County/Parish	House Units Per County/Parish
Louisiana	Acadia	100
	Allen	100
	Beauregard	100
	Calcasieu	200
	Cameron	100
	Jeff'n Davis	100
	Vermilion	100
	Vernon	100
Louisiana		900
Texas	Angelina	100
	Chambers	100
	Galveston	100
	Hardin	200
	Jasper	100
	Jefferson	2,700
	Liberty	100
	Nacogdoches	100
	Newton	100
	Orange	1,100
	Panola	100
	Polk	100
	Rusk	100
	Sabine	100
	San Augustine	100
	Shelby	100
	Tyler	100
Texas		5,400
TOTAL		6,300

THIS IS AN EXPERIMENTAL MODEL !! THE VALUES ARE PRELIMINARY AND SHOULD BE CONSIDERED A GUIDE BUT NOT AN ABSOLUTE VALUE !!

The amount of temporary housing that may be required is based on no housing need in CAT 1 wind areas, 2% of housing units requiring replacement in CAT 2 wind areas, 4% of housing units requiring replacement in CAT 3 wind areas.

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US Army Corps of Engineers

Hurricane Rita Housing Model

Generated By:
Paul Deatrick, LRL 0700 EDT 09/24/2005

Sources:
HURREVAC
LRL-DEBRIS